

## Appendix C

### Uranium Isotherms

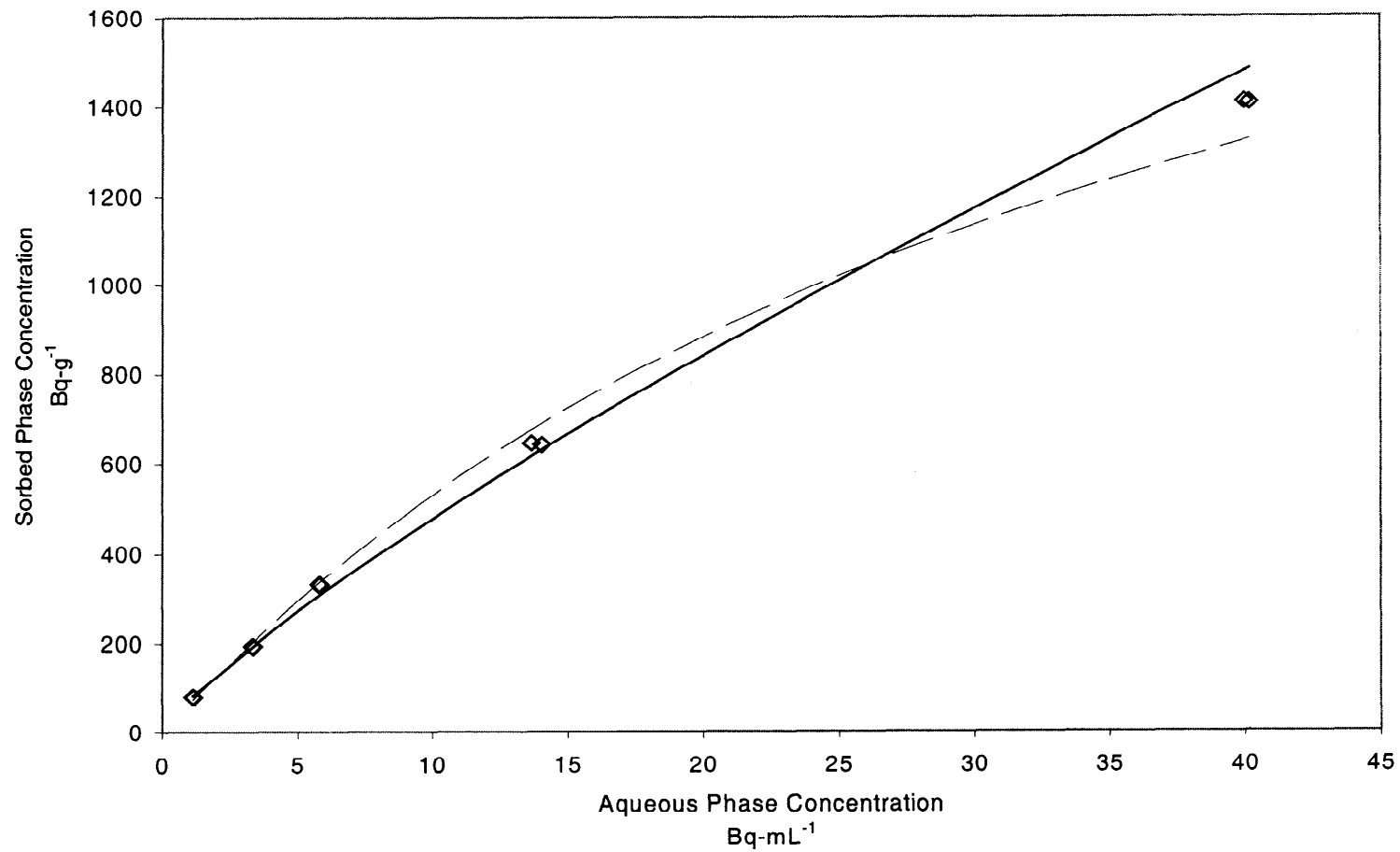


Figure C.1 Application of sorption models to results of equilibrium study for uranium on soil 7DS00101KD ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

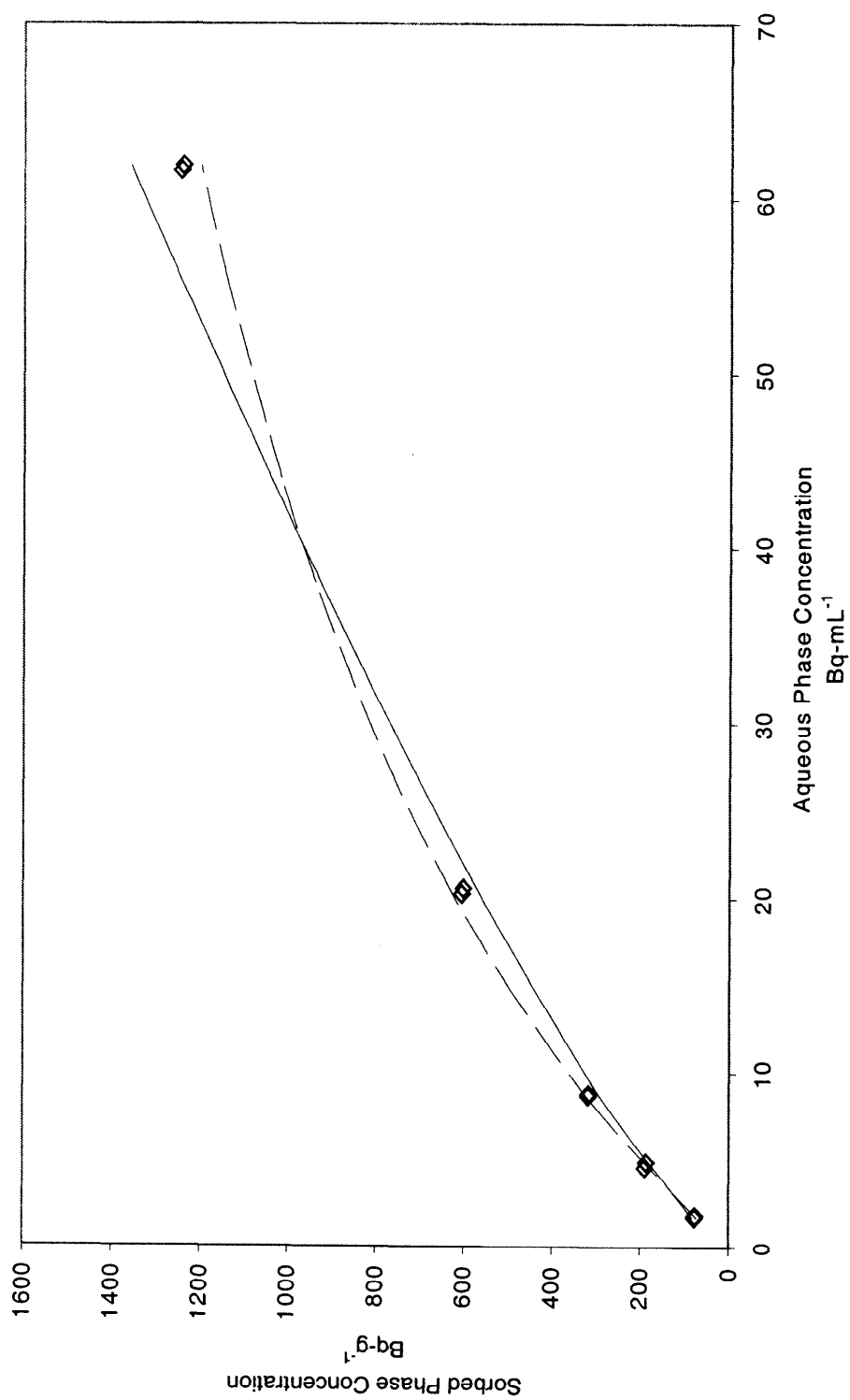


Figure C.2 Application of sorption models to results of equilibrium study for uranium on soil 7DS00301KD (◇). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

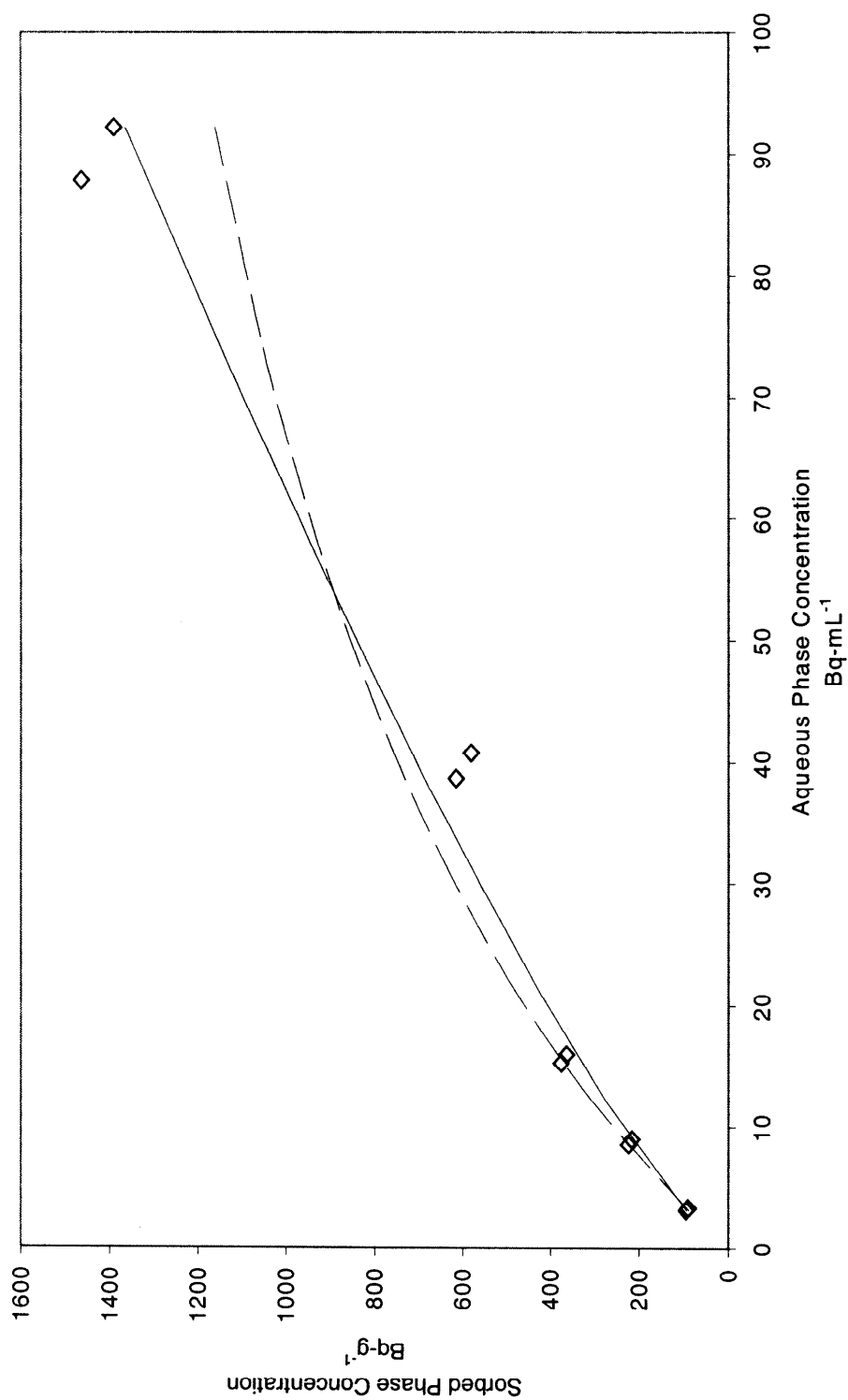


Figure C.3 Application of sorption models to results of equilibrium study for uranium on soil 7DS00501KD ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

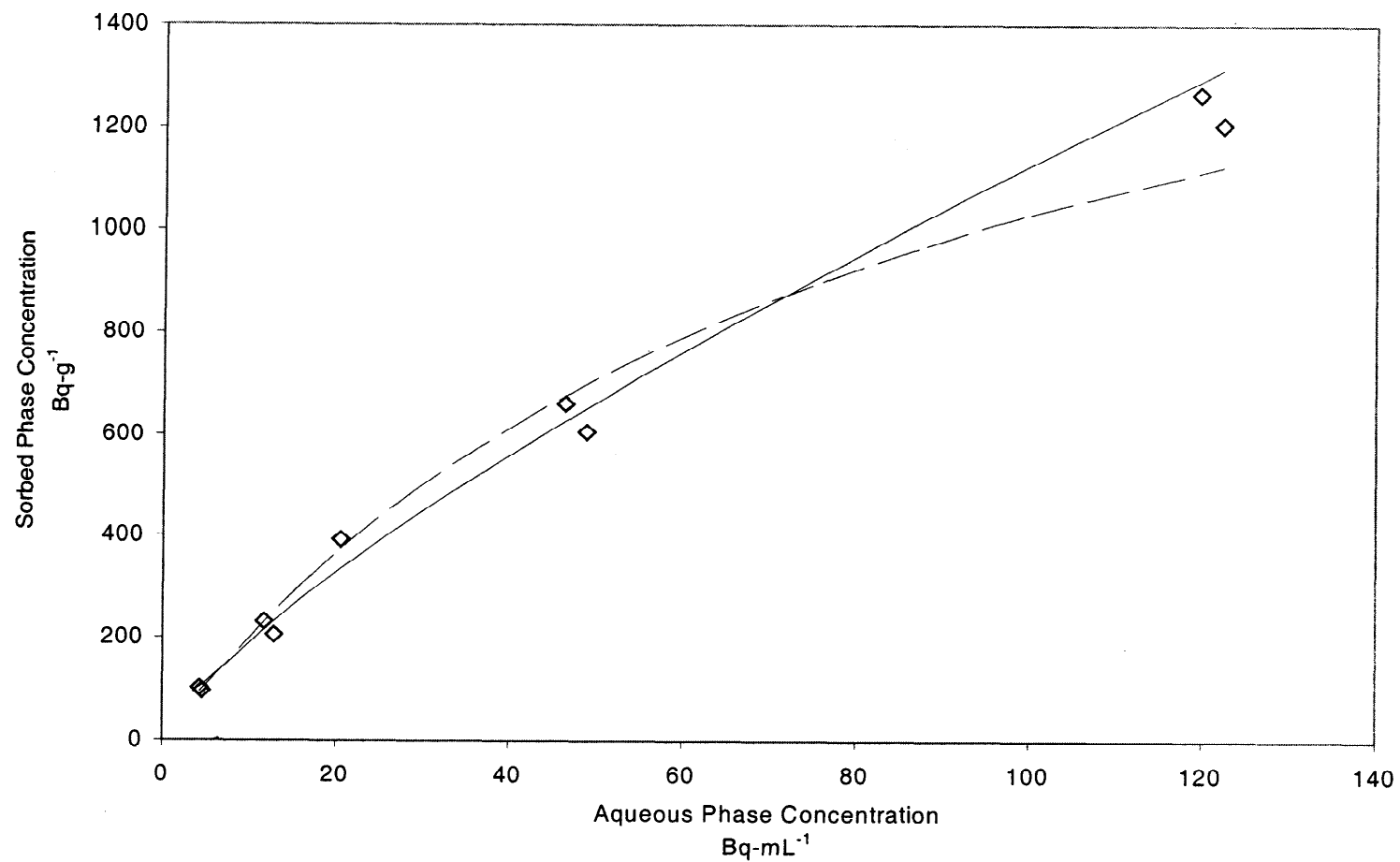


Figure C.4 Application of sorption models to results of equilibrium study for uranium on soil 7DS00701KD ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

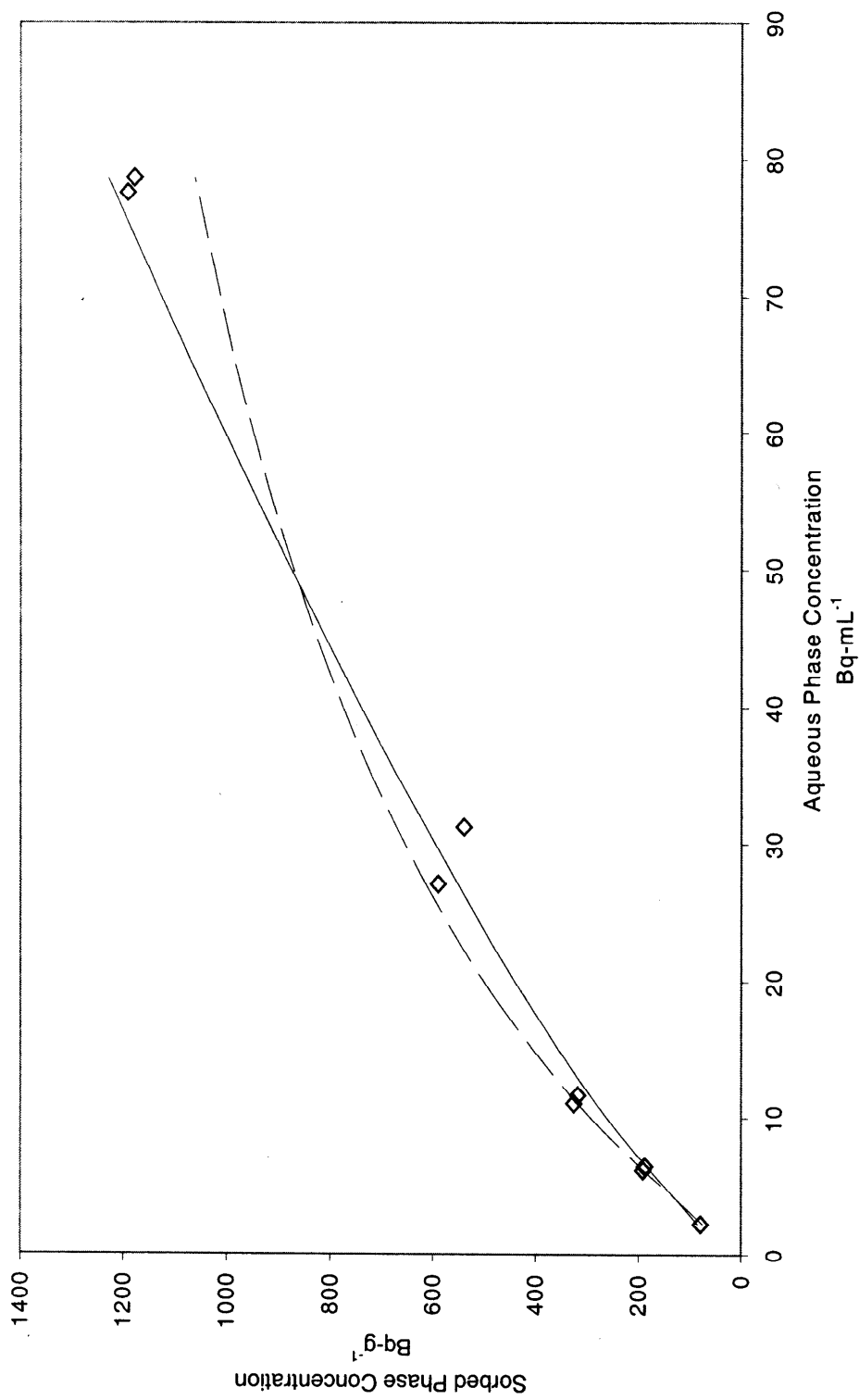


Figure C.5 Application of sorption models to results of equilibrium study for uranium on soil 7DS00901KD ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

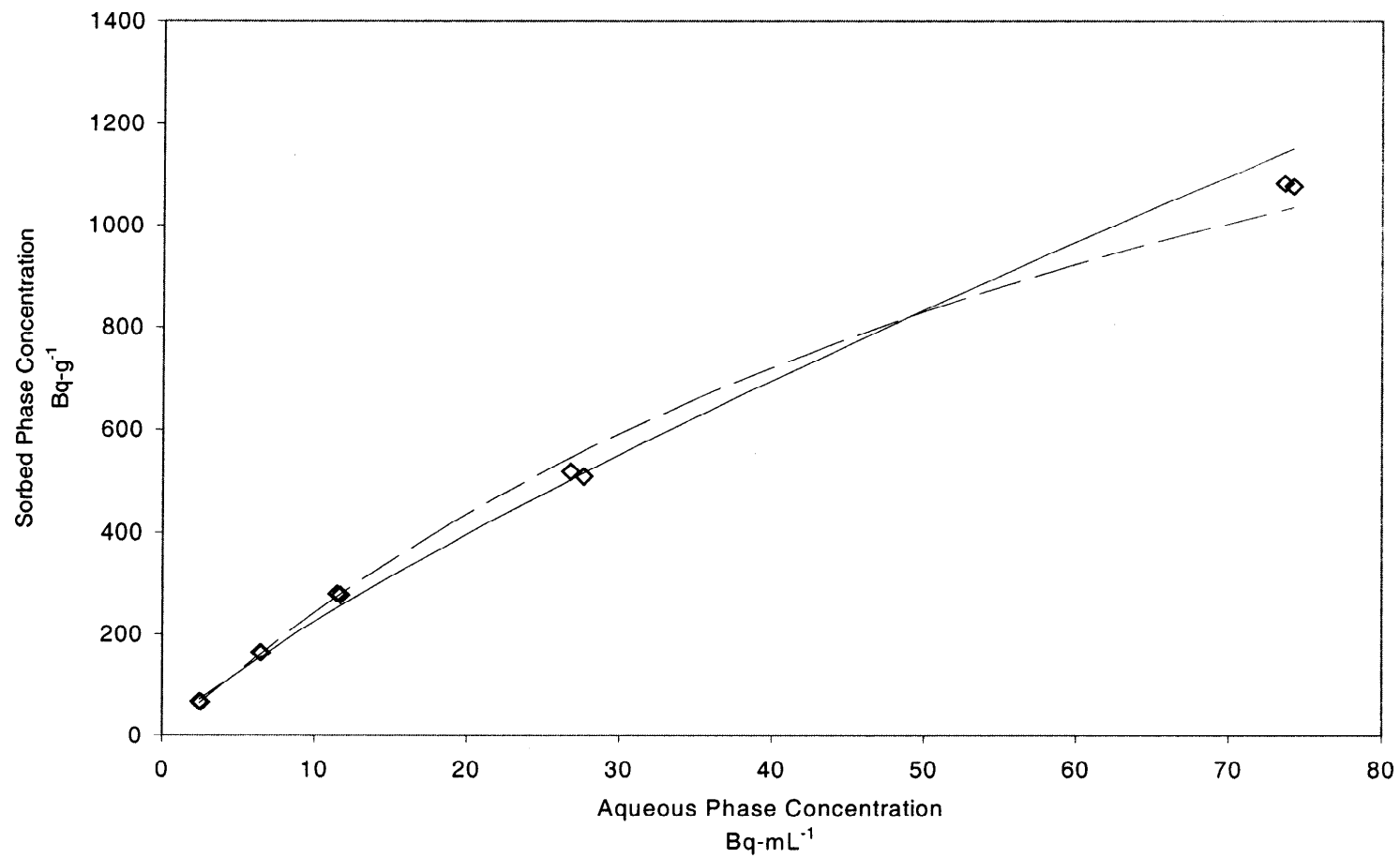


Figure C.6 Application of sorption models to results of equilibrium study for uranium on soil 7DS02301KD ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

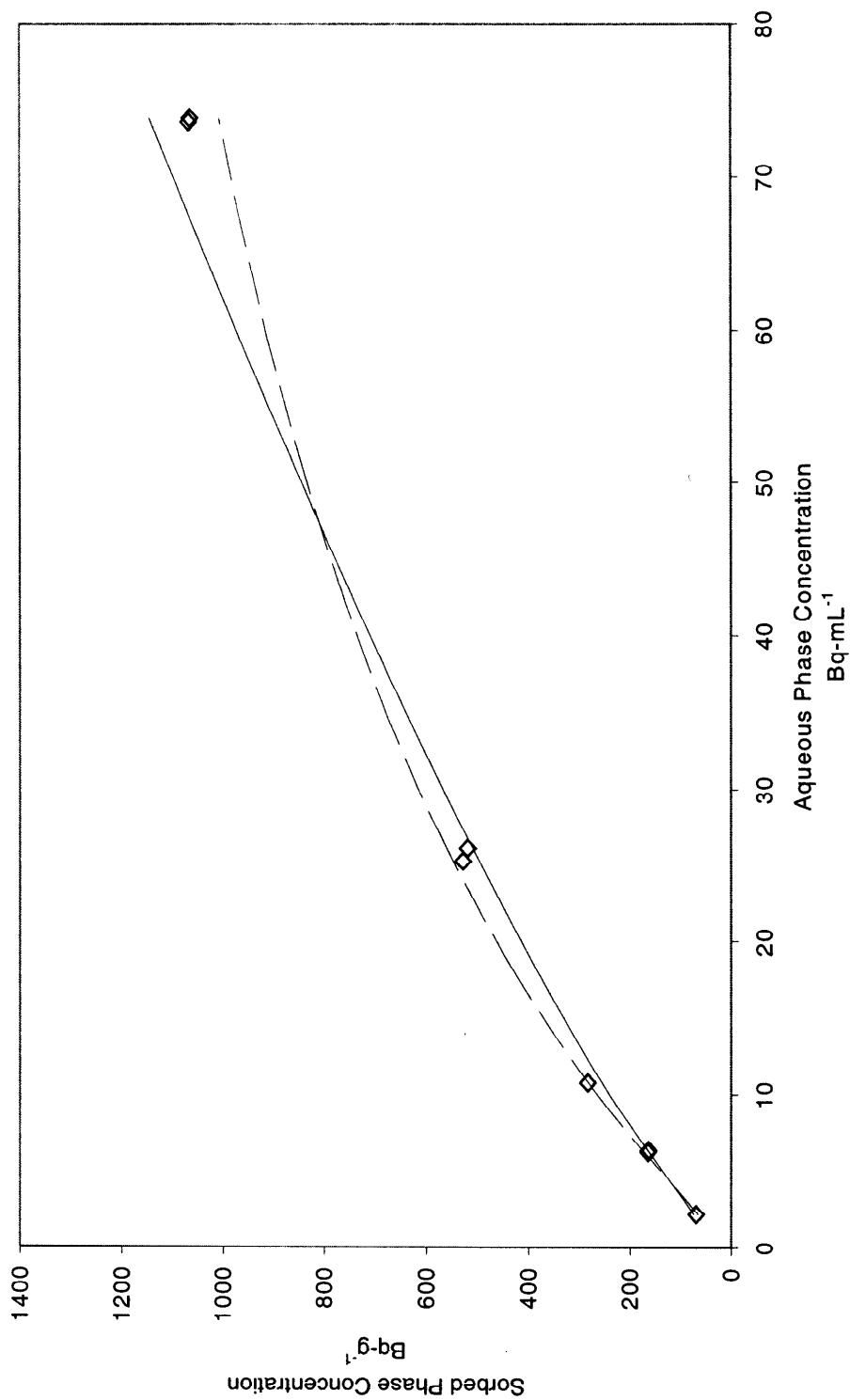


Figure C.7 Application of sorption models to results of equilibrium study for uranium on soil I2S-INEEL-105 ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.



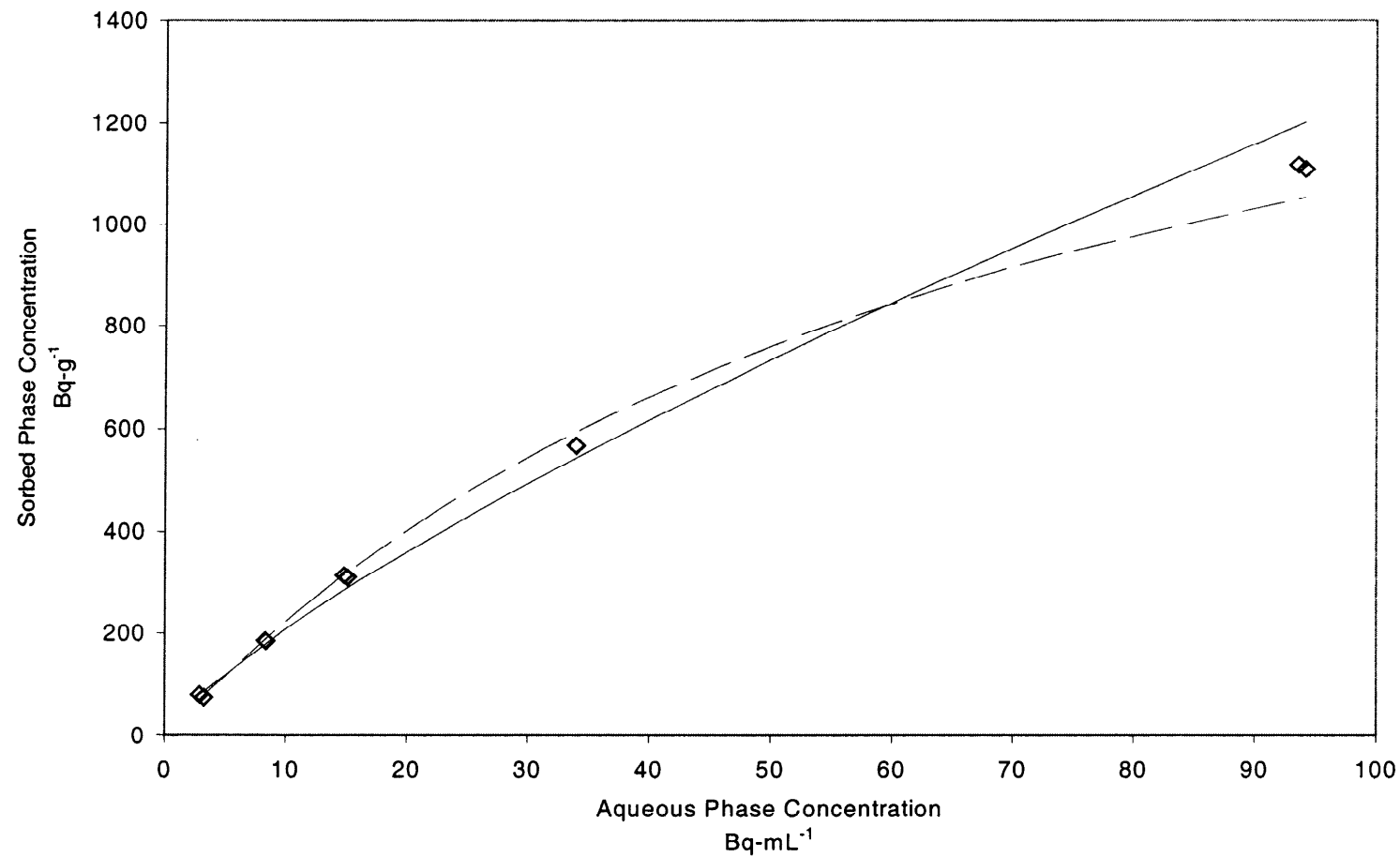


Figure C.8 Application of sorption models to results of equilibrium study for uranium on soil I1S-INEEL-109 ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

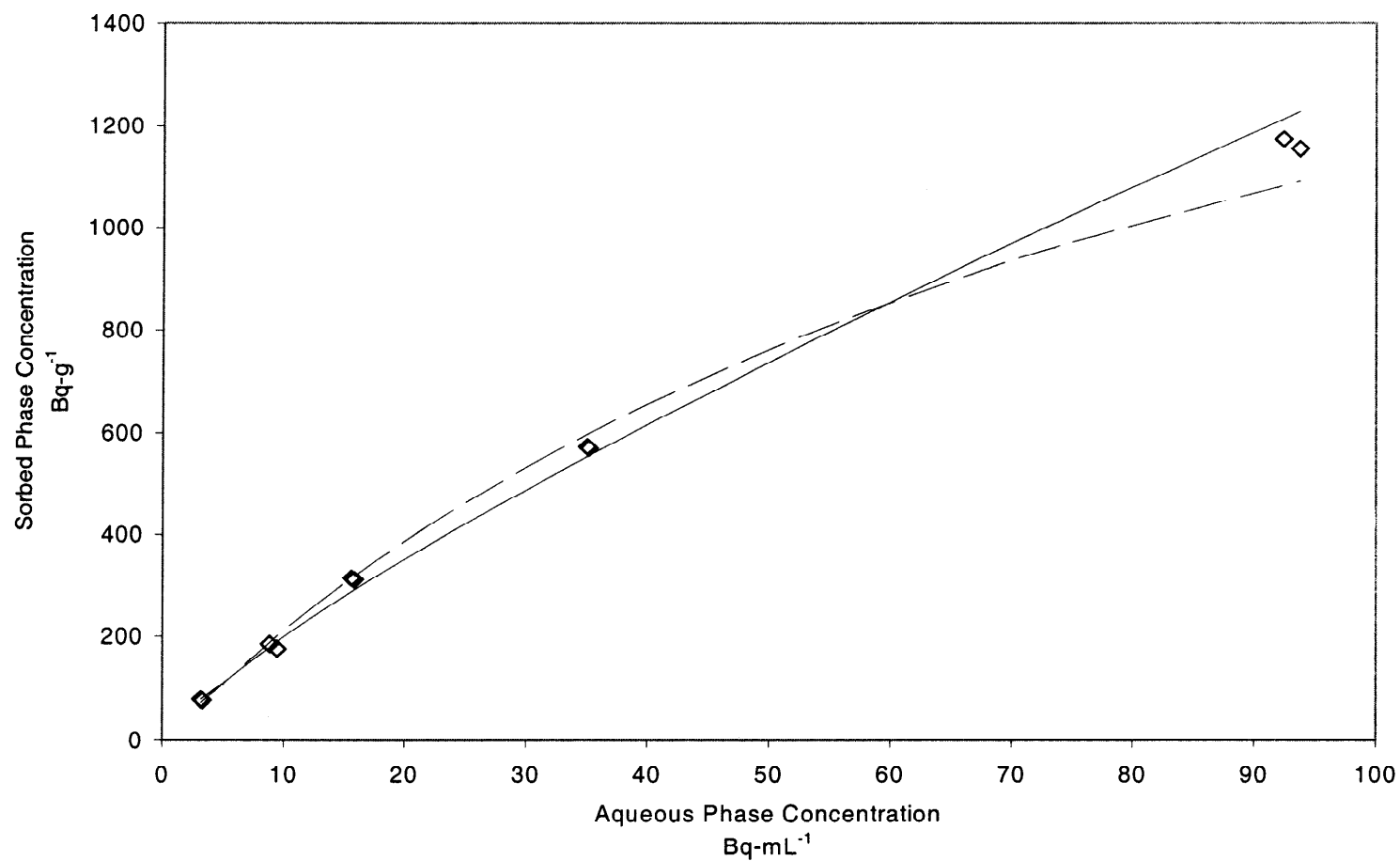


Figure C.9 Application of sorption models to results of equilibrium study for uranium on soil I4D-INEEL-224 ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

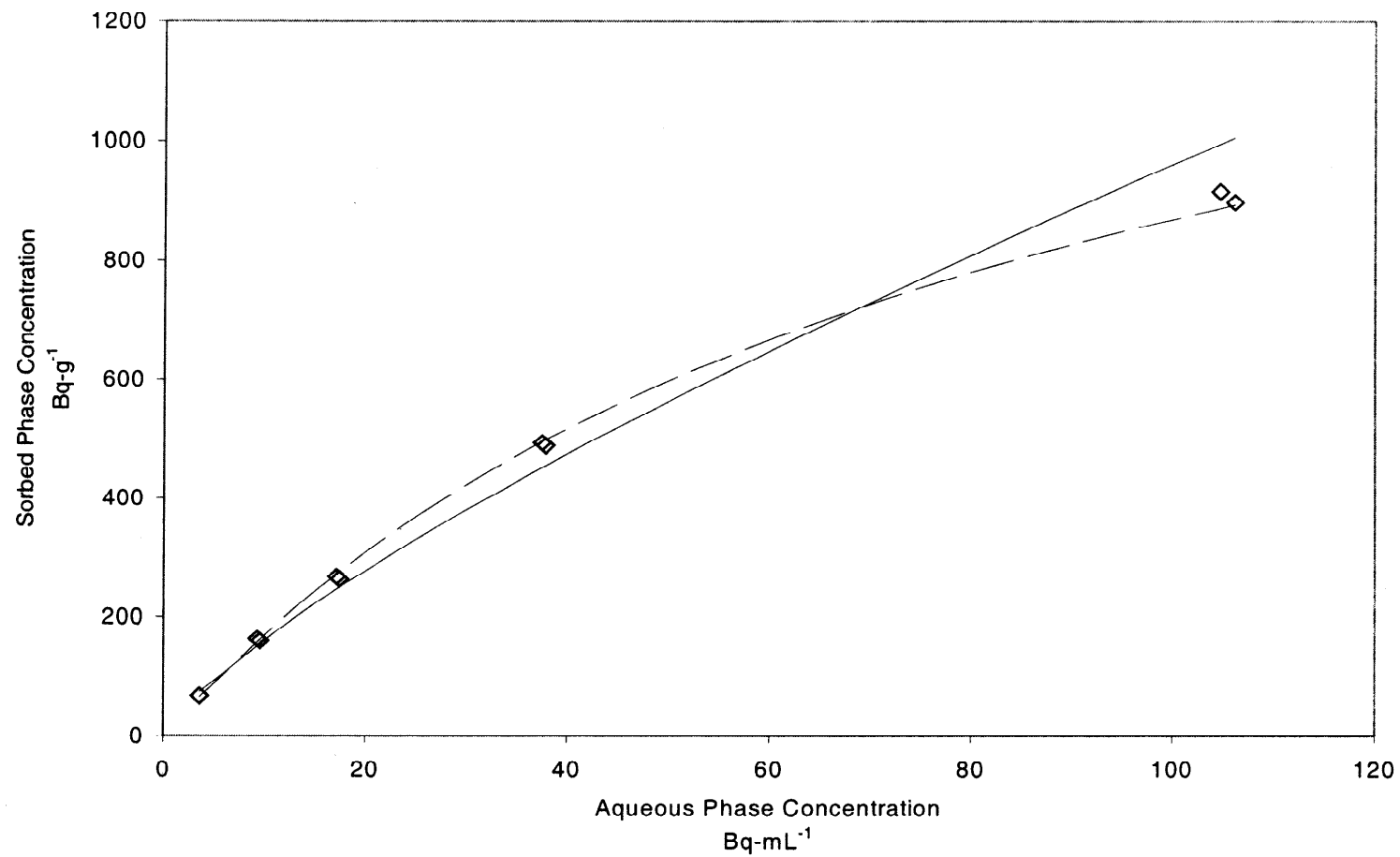


Figure C.10 Application of sorption models to results of equilibrium study for uranium on soil I3D-INEEL-229 ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

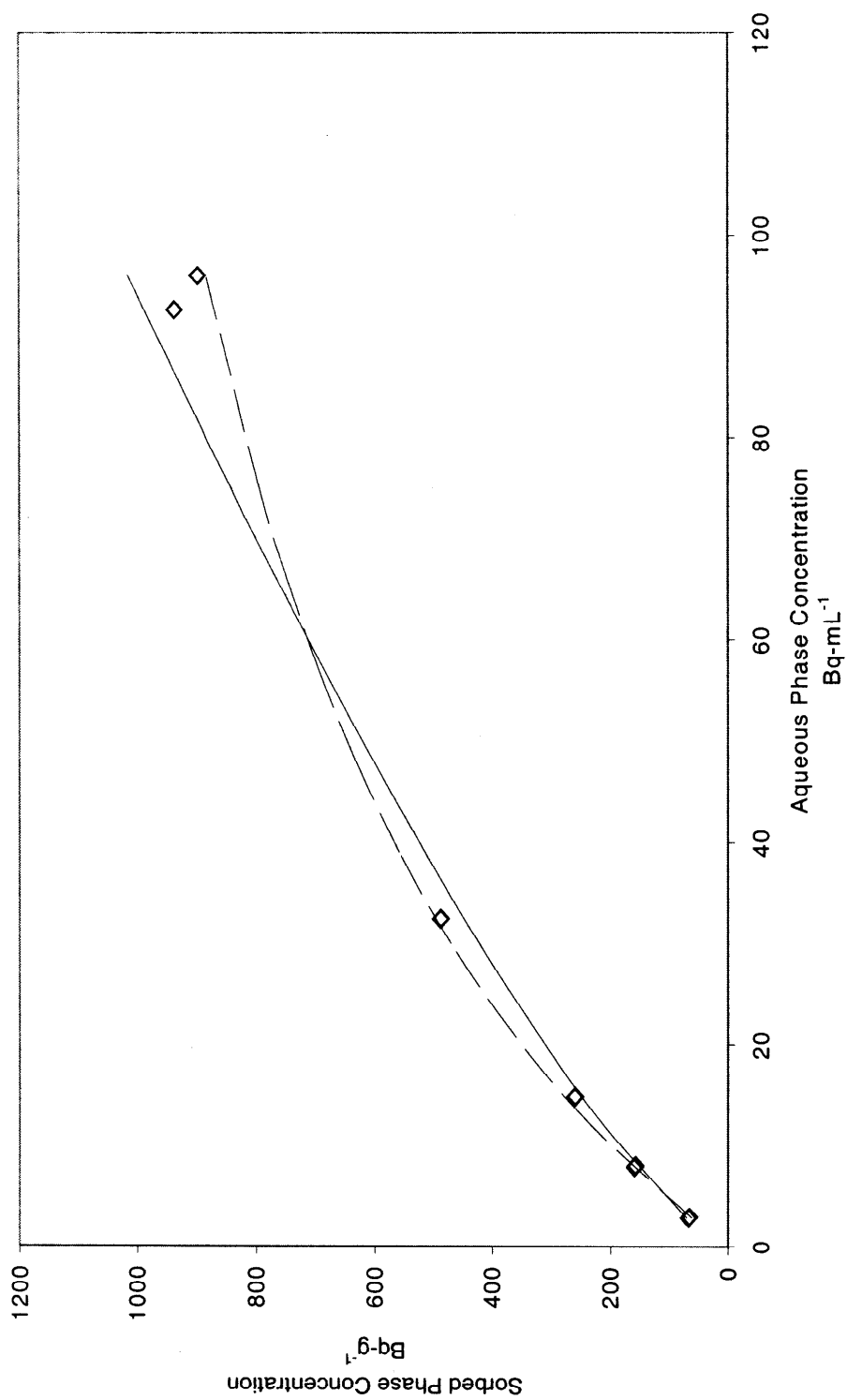


Figure C.11 Application of sorption models to results of equilibrium study for uranium on soil I4D-INEEL-231 (◇). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

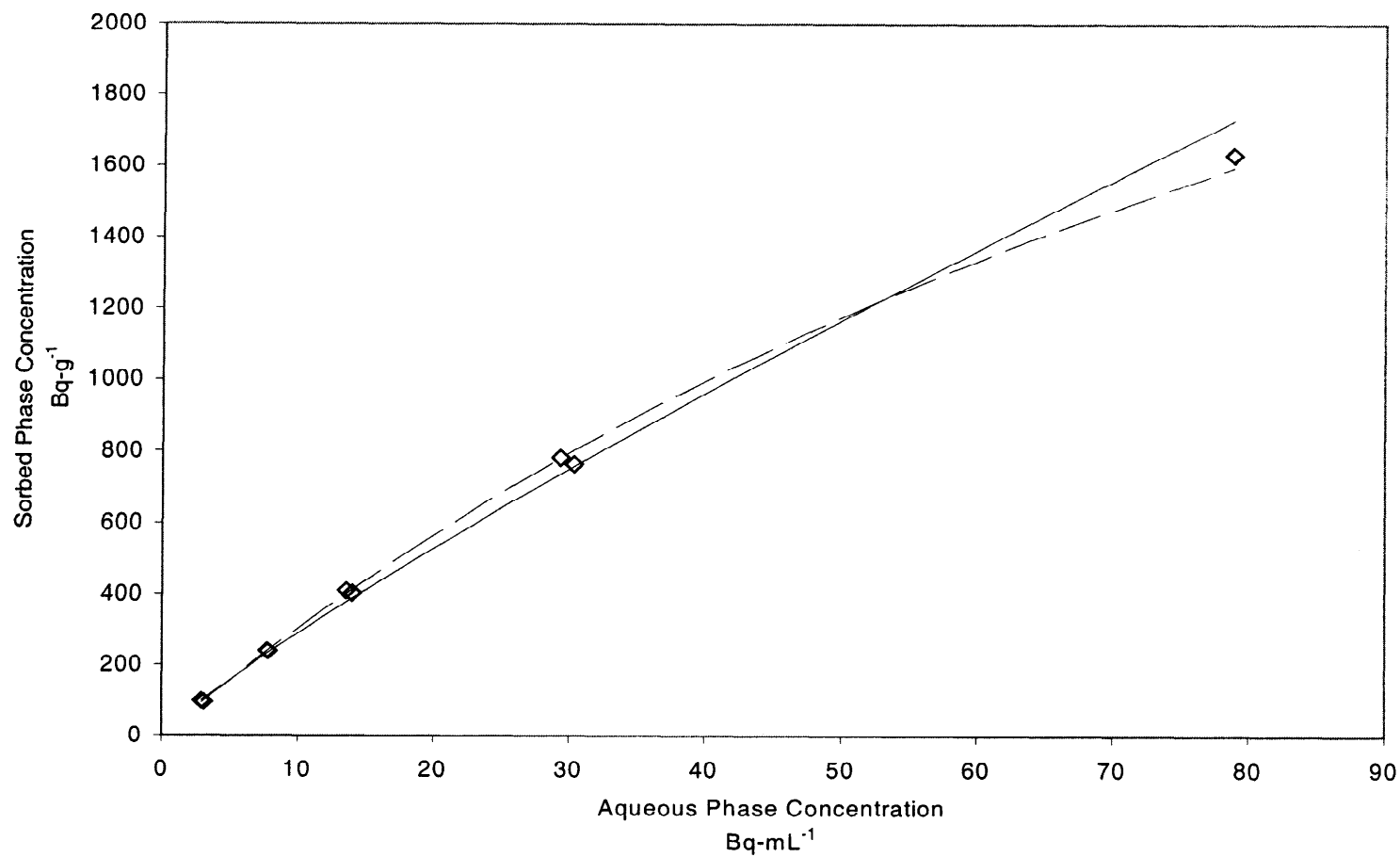


Figure C.12 Application of sorption models to results of equilibrium study for uranium on soil 11D-INEEL-234 (◇). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.

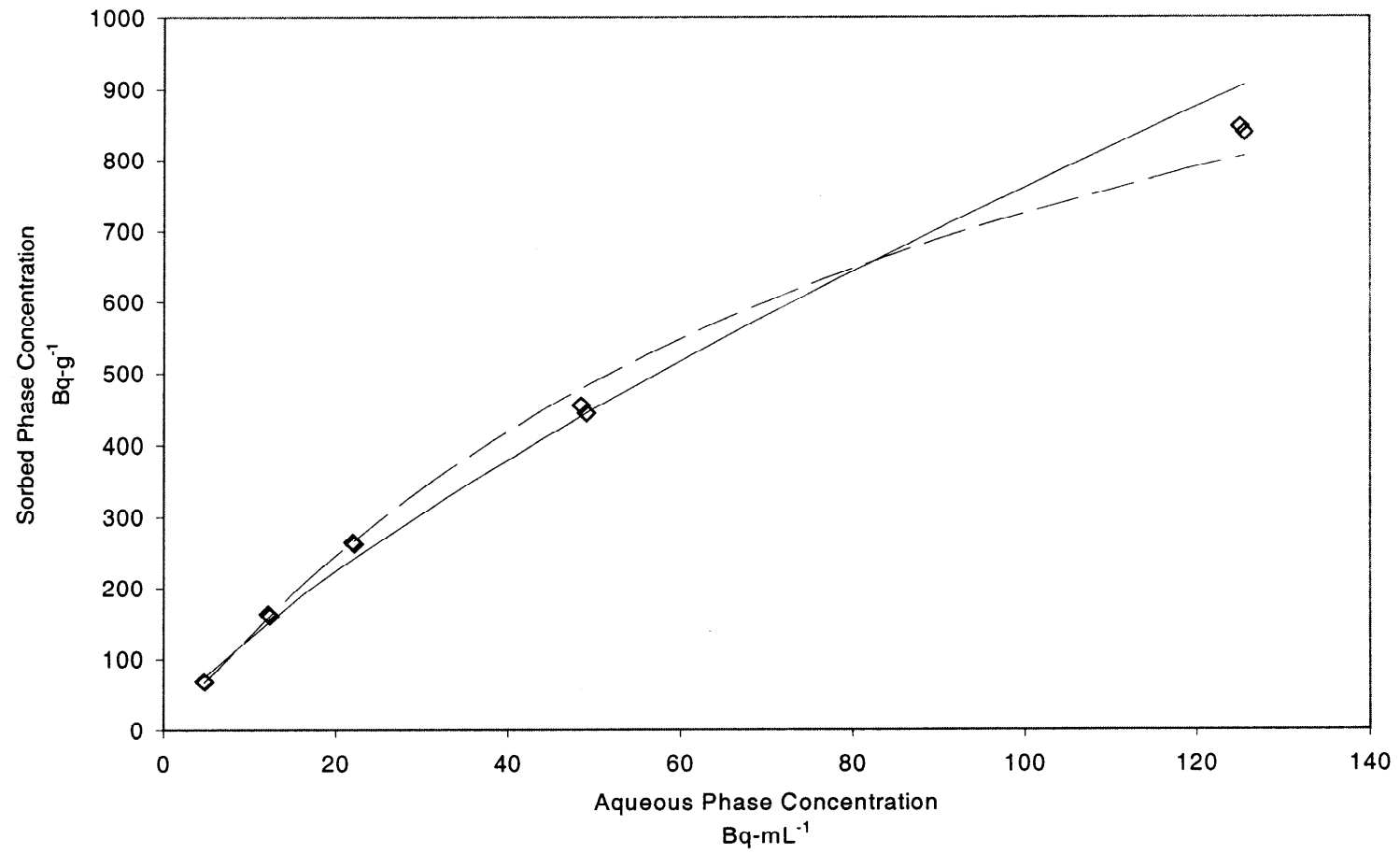


Figure C.13 Application of sorption models to results of equilibrium study for uranium on soil I4D-INEEL-234 ( $\diamond$ ). Solid line represents the fitted Freundlich model. Dashed line represents the fitted Langmuir model.